

Week	Date	Branches and topic
1	24-Aug to 28-Aug	<b>Orientation:</b> Essential agreement Goal Setting (Math and Me) Develop your Math Binder
2	31-Aug to 4-Sep	<b>Data Handling (NT Chapter 7)</b> Construct and analysis: i. Frequency polygons and frequency curves
3	7-Sep to 11-Sep	ii. Cumulative Frequency Polygons and Cumulative Frequency Curves To read the data associated with percentiles and quartiles from the graphs
4	14-Sep to 18-Sep	<b>Measures of Central Tendency (NT Chapter 13)</b> Calculate and analysis mean, mode, median of un-grouped and grouped data <b>Project assessment</b> # Assessment 1 (C D) – Gender Statics (14/9-21/9) Including 2 lessons for practices & 4 lessons for organizing data and report writing
5	21-Sep to 25-Sep	<b>Simultaneous linear equations in two unknowns (NT Chapter 4)</b> Simultaneous linear equations Graphical Method
6	28-Sep to 2-Oct	Method of Substitution Method of Elimination Limitation of the graphical method.
7	5-Oct to 9-Oct	Formulate and solve simultaneous linear equations in two unknowns. <b>Written assessment</b> # Assessment 2 (A) – simultaneous linear equations in two unknowns (26/10)
8	12-Oct to 16-Oct	<b>Inequalities in one unknown (NT Chapter 8)</b> The inequality signs and inequalities Basic Properties of Inequalities A. Trichotomy property
9	19-Oct to 23-Oct (Mid Term Break)	B. Transitive property C. Addition property D. Multiplicative property Simply an inequality involving four operations
10	26-Oct to 30-Oct	Solve problems involving linear inequalities in one unknown # Assessment 3 (B) – Inequalities (9/11-13/11) *Another week will be spent on practices and assessment (9/11-13/11)
11	2-Nov to 6-Nov	<b>Area and Volume (NT Chapter 10)</b> Areas of polygons (Review)
12	9-Nov to 13-Nov	Areas of similar figures Circumferences of circles (Review)
13	16-Nov to 20-Nov	Areas of circles (Review) Lengths of arcs and areas of sectors Volumes of prisms and cylinders Surface areas of prisms and cylinders Accumulation of errors
14	23-Nov to 27-Nov	<b>Review and catch up</b>
15	30-Nov to 4-Dec	<b>Summative Assessment Week</b> # Assessment 4 (A) – (Board based test for data handling, central tendency, simultaneous linear equations, inequalities in one unknown and, areas and volumes)
16	7-Dec to 11-Dec	<b>CAS Trip Week</b>
17	14-Dec to 18-Dec (0-1 lesson)	<b>IDU Week</b>
18	21-Dec to 25-Dec	<b>Christmas and New Year Holiday</b>
19	28-Dec to 1-Jan	
20	4-Jan to 8-Jan	<b>Pythagoras' Theorem (NT Chapter 6)</b> Squares and square roots Pythagoras' Theorem Proofs of Pythagoras' Theorem and its converse Applications of Pythagoras' Theorem *Irrational Numbers
21	11-Jan to 15-Jan	<b>Trigonometry (NT Chapter 11)</b> Trigonometry functions (cosine, sine and tangent of an angle) Finding angles through cosine, sine and tangent ratios Use of calculators (to find value cosine, sine and tangent of an angle) Applications of Trigonometric ratios Properties of Trigonometric ratios
22	18-Jan to 22-Jan	# Assessment 5 (B D) – investigation and real-life problem (within the week 25-29/11 a double lesson)
23	25-Jan to 29-Jan	
24	1-Feb to 5-Feb	<b>Identities and Factorization (NT Chapter 3)</b> The concept of identity
25	8-Feb to 12-Feb Chinese New Year Holiday	Some algebraic identities Perfect squares
26	15-Feb to 19-Feb Chinese New Year Holiday	Factorization by: i. Grouping terms
27	22-Feb to 26-Feb	ii. Using identities

Week	Date	Branches and topic
28	29-Feb to 4-Mar	<b>Algebraic Fractions (NT Chapter 9)</b> Simple algebraic fractions
29	7-Mar to 11-Mar	Simplification of algebraic fractions Multiplication and division of algebraic fractions
30	14-Mar to 18-Mar	Adding and subtraction of algebraic fractions Formulae and substitution
31	21-Mar to 25-Mar	Change of subject of a formula <b># Assessment 6 (A C) – Written assessment - 14/3</b>
32	28-Mar to 1-Apr	<b>Easter Holiday</b>
33	4-Apr to 8-Apr	Review and catch up week (Might also be affected by community project exhibition)
34	11-Apr to 15-Apr	
35	18-Apr to 22-Apr	
36	25-Apr to 29-Apr	
37	2-May to 6-May	
38	9-May to 13-May	
39	16-May to 20-May	
40	23-May -27-May	
41	30-May to 3-Jun	<b>Summative Assessment Week</b> <b># Assessment 6 (A) – 26/5-1/6 (Board based test for all topics learned throughout year 8)</b>
42	6-Jun to 10-Jun	Getting ready for SLC (20-24/6 – 3-5 lessons) <b>*Tessellation</b>
43	13-Jun to 17-Jun	
44	20-Jun to 24-Jun	
45	27-Jun to 1-Jul	

**\*Topics with the star sign are extended topics**

**At the end of each term, need to spend 1 or 2 lesson(s) to check folder or e-portfolio (i-book)**

Textbooks:

New Trend: New Trend Mathematics (second edition) S2A and S2B by Chan Mung Hung *et al.* Chung Tai Educational Press